



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Paul D. Rennert  
Serial No. : 10/540,959 ✓  
Filed : June 28, 2005  
Title : KIM-1 ANTAGONISTS AND USE TO MODULATE IMMUNE SYSTEM

Art Unit : 1644  
Examiner :

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicant requests consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

Copies of an International Search Report (dated September 30, 2004), an International Preliminary Examination Report (dated February 8, 2005), and a Supplementary European Search Report (dated March 23, 2006) from counterpart applications are also enclosed.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

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GINA MALDONADO

Typed or Printed Name of Person Signing Certificate

Applicant : Paul D. Rennert  
Serial No. : 10/540,959  
Filed : June 28, 2005  
Page : 2 of 2

Attorney's Docket No.: 13751-055US1 / A184 US 002

This statement is being filed before the receipt of a first Office Action on the merits.  
Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney  
Docket No. 13751-055US1.

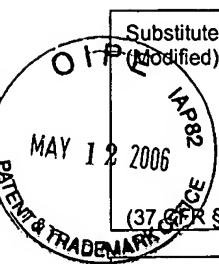
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13751-055US1	Application No. 10/540,959
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Paul D. Rennert	
		Filing Date June 28, 2005	Group Art Unit 1644

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,622,861	04/22/1997	Kaplan et al.			
	AB	6,084,083	07/02/2000	Levinson			
	AC	20030124114	07/03/2003	McIntire et al.			
	AD	20030215831	11/20/2003	Sanicola-Nadel et al.			
	AE	6,664,385	12/16/2003	Sanicola-Nadel et al.			
	AF	20040005322	01/08/2004	Kuchroo et al.			
	AG	20040180038	09/16/2004	Hancock et al.			
	AH	20050095593	05/05/2005	McIntire et al.			
	AI	20050112117	05/26/2005	Bailly et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AJ	WO 96/04376	02/15/1996	WIPO				
	AK	WO 97/44459	11/27/1997	WIPO				
	AL	WO 97/44460	11/27/1997	WIPO				
	AM	WO 98/20110	05/14/1998	WIPO				
	AN	WO 01/98481	12/27/2001	WIPO				
	AO	WO 02/098920	12/12/2002	WIPO				
	AP	WO 03/025138	03/27/2003	WIPO				
	AQ	WO 03/042661	05/22/2003	WIPO				
	AR	WO 03/080856	10/02/2003	WIPO				
	AS	WO 04/005544	01/15/2004	WIPO				
	AT	WO 04/084823	10/07/2004	WIPO				
	AU	WO 05/001092	01/06/2005	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document

Examiner Signature	Date Considered
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	AV	Bailly, V., et al., "Shedding of Kidney Injury Molecule-1, a Putative Adhesion Protein Involved in Renal Regeneration," Journal of Biological Chemistry, (2002) 277(42):39739-39748.
	AW	Berg et al., "L-selectin-mediated Lymphocyte Rolling on MadCAM-1," Nature (1993) 366:695-698.
	AX	Berlin et al., "alpha-4-beta-7 Integrin Mediates Lymphocyte Binding to the Mucosal Vascular Address in MAdCAM-1," Cell (1993) 74:185-195.
	AY	Bonventre and Colvin, "Adhesion Molecules in Renal Disease," Current Opinion in Nephrology and Hypertension (1996) 5:254-261.
	AZ	Briskin et al., "MAdCAM-1 has Homology to Immunoglobulin and Mucin-like Adhesion Receptors and to IgA1," Nature (1993) 363:461-464;
	AAA	Database number AC005603, Homo sapiens subtelomeric cosmid 11b-1,9/3/1998.
	ABB	Database Accession No. AC026777, "Homo sapiens chromosome 5 clone CTC-332D4, complete sequence", retrieved from EMBL, 27 March 2000
	ACC	Database Accession No. AQ277590, "CITBI-E1-2517G14.TFCITBI-E1 Homo sapiens genomic clone 2517G14, genomic survey sequence," retrieved from EMBL, 23 Nov. 1998
	ADD	Database Accession No. AL022721, "Human DNA Sequence from clone 109F14 on chromosome 6p21.2-21.3", retrieved from EMBL, 27 April 1998
	AEE	Dudley et al., "A Requirement for Bone Morphogenetic Protein-7 During Development of the Mammalian Kidney and Eye," Genes & Development (1995) 9:2795-2807.
	AFF	Encinas et al., "Anti-T-Cell Ig and mucin domain-containing protein 1 antibody decreases T <sub>H</sub> 2 airway inflammation in a mouse model of asthma," J. of Allergy and Clinical Immunol. (2005), 116(6):1343-1349, (XP002367404).
	AGG	Faure et al., "Differentially Expressed Genes in Ischemic Acute Renal Failure", Mol. Biol. Of the Cell, Bethesda, MD, 1998, 9:473A (XP-000953127).
	AHH	Fagotto and Gumbiner, "Cell Contact-Dependent Signaling," Developmental Biology (1996) 180:445-454.
	AII	Feigelstock et al., "The human homolog of HAVcr-1 codes for a hepatitis A virus cellular receptor," J. Virol. (1998) 72:6621-6628.
	AJJ	Ferrara et al., "Monoclonal Antibody And Receptor Antagonist Therapy for GVHD.", Cancer Treatment and Research, (1999), 101:331-368.
	AKK	Greve et al., "The Major Human Rhinovirus Receptor Is ICAM-1," Cell (1989) 56:839-847.
	ALL	Gorczynski et al., "A CD200FC Immunoadhesin Prolongs Rat Islet Xenograft Survival in Mice.", Transplantation, Williams and Wilkins, Baltimore, MD, US., (2002), 73(12):1948-1953.
	AMM	Han, W. et al., "Kidney Injury Molecule-1 (KIM-1): A novel biomarker for human renal proximal tubule injury," Kidney International, (2001, 62(1):237-244.
	ANN	Hubank and Schatz. "Identifying Differences in mRNA Expression by Representational Difference Analysis of cDNA," Nucleic Acids Research (1994) 22:5640-5648
	AOO	Ichimura et al., "Kidney Injury Molecule-1 (KIM-1), a Putative Epithelial Cell Adhesion Molecule...". J. Biol. Chem. 273(7):4135-4142, 1998.
	APP	Kaplan et al. "Identification of a Surface Glycoprotein on African Green Monkey Kidney Cells as a Receptor for Hepatitis A Virus," EMBO (1996) 15:4282-96.
	AQQ	Klinken et al, "Mucin Gene Structure and Expression: Protection vs. Adhesion," Am J. Physiol. (1995) 269:G613-G627

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	ARR	Kuchroo, et al. "The <i>Tim</i> Gene Family: Emerging Roles in Immunity and Disease," Nat. Rev. Immunol. (2003) 3:454-62.
	ASS	Kumanogoh et al. "Class IV semaphorin Sema4A enhances T-cell activation and interacts with Tim-2" Nature (2002) 419:629-33
	ATT	Lin G. et al., "Expression of CD34 in endothelial cells, hematopoietic progenitors and nervous cells in fetal and adult mouse tissues" Eur. J. Immunol. (1995) 25:1508-1516.
	AUU	Luo et al., "BMP-7 is an Inducer of Nephrogenesis and is also Required for Eye Development and Skeletal Patterning," Genes & Development (1995) 9:2808-2820.
	AVV	McIntire et al. "Identification of <i>Tapr</i> (An Airway Hyperreactivity Regulator Locus) and the Linked <i>Tim</i> Gene Family," Nat. Immunol. (2001):2:1109-16.
	AWW	Monney et al., "Th1-Specific Cell Surface Protein Tim-3 Regulates Macrophage Activation and Severity of an Autoimmune Disease," Nature (2002) 415:536-41.
	AXX	Muller et al., "Integrin alpha8-beta1 is Critically Important for Epithelial-Mesenchymal Interactions During Kidney Morphogenesis" Cell (1997) 88:603-613.
	AYY	Owens et al., "The genetic engineering of monoclonal antibodies," J. Immunol. Methods. (1994) 168:149-165.
	AZZ	Padanilam et al., "Molecular mechanisms of cell death and regeneration in acute ischemic renal injury", Current Opinion in Nephrology and Hypertension, Rapid Science, London GB 1999, 81(1):15-19 (XP-000953223).
	AAAA	Prinz et al., "Treatment of severe cutaneous lupus erythematosus with a chimeric CD4 monoclonal antibody, cM-T412," J. of the American Academy of Dermatology, (1996), 34:244-52.
	ABBB	Rieger et al., Glossary of Genetics. 5th Edition, Springer-Verlag, NY, (1991) 16-17.
	ACCC	Rosenberg et al., "Differential gene expression in the recovery from the ischemic renal injury", Kidney International 39:1156-1161, 1991 (XP-000953186).
	ADDD	Rudikoff et al., "Single amino acid substitution altering antigen-binding specificity," Proc. Nat. Acad. Sci., USA, (1982) 79:1979-1983.
	AEEE	Sastry and Horwitz, "Adhesion-Growth Factor Interactions During Differentiation: An Integrated Biological Response," Developmental Biology (1996) 180:455-467.
	AFFF	Shimizu et al., "Mucins in the Mainstream," Nature (1993) 336:630-631.
	AGGG	Shyjan et al., "Human Mucosal Addressin Cell Adhesion Molecule-1 (MAdCAM-1) Demonstrates Structural and Functional Similarities to the alpha-4-beta-7-Integrin Binding Domains of Murine MAdCAM-1," J. of Immunology (1996) 156:2851-2857.
	AHHH	Skolnick et al., "From genes to protein structure and function: novel applications of computational approaches in the genomic era," Tibtech (2000) 18:34-39.
	AIII	Silberstein et al., "Neutralization of Hepatitis A Virus (HAV) by an Immunoadhesin Containing the Cysteine-Rich Region of HAV Cellular Receptor-1," J. of Virol. (2001), 75(2):717-725.
	AJJJ	Takada et al., "The Cytokine-adhesion Molecule Cascade in Ischemia/Reperfusion Injury of the Rat Kidney," J. Clin. Invest. (1997) 99:2682-2690.
	AKKK	Thadhani et al., "Acute Renal Failure," NEJM (1996) 334:1448-1460.
	ALLL	Thompson et al., "The Cys-Rich Region of Hepatitis A Virus Cellular Receptor 1 is Required for Binding of Hepatitis A Virus and Protective Monoclonal Antibody 190/4," J. of Virology (1998) 72(5):3751-3761.

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	AMMM	Weternan et al., "nmb, A Novel Gene, is Expressed in Low-Metastatic Human Melanoma Cell Lines and Xenografts," Int. J. Cancer (1995) 60:73-81.
	ANNN	Wills-Karp ""Asthma genetics: not for the TIMid?" (2001) Nat Immunol. 2001 2(12):1095-96
	A000	Yung, R., "Etanercept," Current Opinion in Investigational Drugs, Pharmapress, U.S., (2001-02), 2(2):216-221.

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